Package - 1 Includes 5 Works of Rs. 300.00 Lakhs. 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Quality Control Reports

QC ABSTRACT

NAME OF WORK: Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	18 set /701-750 cum	732.73	36	36

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2021-10-27-30** **Date: 24-05-21**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 21-05-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 22-05-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	_
2	Finess by Air permeablity method (m^2/kg,Min)	248.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	_
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig ..... Date ..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Suvitha .M.L
AE WIO

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-10-27-30** **Date: 19-06-21**
Project Name	:	Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).
Agency	:	Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043
Customer's Reference	:	BBMP/EE/BTP/WO/155/2020-21
Date of Receipt	:	21-05-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-05-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-10-27-30** **Date: 24-05-21**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 21-05-21

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 21-05-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	424	424	2.8	97.2	90-100
3	20 mm	5857	6281	41.9	58.1	30-70
4	10 mm	4228	10509	70.1	29.9	10-35
5	4.75 mm	4226	14735	98.2	1.8	0-5
6	Pan	265	15000	100.0	0	---

Suresh. N.K
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-10-27-30** **Date: 24-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.59	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.22	_

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Smitha. NR
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-10-27-30** **Date: 24-05-21**
Project Name	:	Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).
Agency	:	Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043
Customer Reference	:	BBMP/EE/BTP/WO/155/2020-21
Date of Receipt	:	21-05-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-05-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	275	275	5.5	94.5	90-100
3	10 mm	2751	3026	60.5	39.5	25-55
4	4.75 mm	1750	4776	95.5	4.5	0-10
5	Pan	224	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-10-27-30** **Date: 24-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.21	_
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

Smitha-N K
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-10-27-30** **Date: 24-05-21**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 21-05-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 21-05-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-10-27-30** **Date: 24-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Sunitha. N L
AE WIO

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2021-10-27-30** **Date: 16-06-21**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 12-06-21

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 12/06/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	79.9	17.8	16.6	20.7
2	Cover Slab-2	75.49	100.52	1.122	4475	80.3	17.9	16.7	20.9
3	Cover Slab-3	75.50	100.51	1.118	4476	78.5	17.5	16.3	20.4

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

Sunitha. NK
AE DW

CIVIL PRO Sig ..... Date ..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2021-10-27-30** **Date: 16-06-21**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 12-06-21

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 12/06/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	140.1	17.8	17.8	22.3
2	B	100.03	165.49	2.793	7857	142.2	18.1	18.1	22.6
3	C	100.01	165.50	2.815	7854	141.1	18.0	18.0	22.5

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig ..... Date ..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Smitha. N.L
AE (VRP)

****End of Report****

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2021-10-27-30** **Date: 25-05-21**
Project Name	:	Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).
Agency	:	Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043
Customer's Reference	:	BBMP/EE/BTP/WO/155/2020-21
Date of Receipt	:	21-05-21
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	21-05-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	148	202	11988	23.030	1921.0	1878.5	Not less than 1800Kg/m^3
2	399	150	202	12090	21.458	1774.9		
3	398	149	200	11860	23.004	1939.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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AE W10

Lab ID : CP-2021-10-27-30 Date: 25-05-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	151	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	152	201	
3	403	150	203	
4	402	152	199	
5	401	150	202	
6	401	152	202	
7	400	150	200	
8	404	152	202	
9	403	153	201	
10	402	150	203	
11	400	152	202	
12	401	153	202	
13	402	149	201	
14	402	149	200	
15	402	151	201	
16	400	152	203	
17	404	150	199	
18	400	150	200	
19	402	149	203	
20	401	152	202	
Average of 20	**402**	**151**	**201**	

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R-K-V

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Sunitha.NK
AE DIO

Lab ID : CP-2021-10-27-30 Date: 25-05-21

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	151	60308	252.0	4.2	4.3
2	403	152	61095	270.1	4.4	
3	403	150	60406	253.4	4.2	
4	402	152	61044	268.6	4.4	
5	401	150	60364	265.8	4.4	
6	401	152	61068	242.7	4.0	
7	400	150	59875	269.4	4.5	
8	404	152	61466	262.5	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

AEE (VRP) SD

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Smitha .N K
AE W10

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-10-27-30** **Date: 06/07/2021**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 01-07-21

Customer ID : Coping Concrete (BEL Layout 2nd Block 2nd Cross Majathindi Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	29/06/2021	06/07/2021	150.27 X 150.90 X 150.00	22676	**8.346**	280.7	12.4	12.2
2	Coping Concrete	M15	29/06/2021	06/07/2021	151.96 X 151.67 X 151.01	23048	**8.342**	279.2	12.1	
3	Coping Concrete	M15	29/06/2021	06/07/2021	150.11 X 151.90 X 151.22	22802	**8.502**	276.0	12.1	

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

AE AD

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-10-27-30** **Date: 08/07/2021**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 12-06-21

Customer ID : Vent Concrete (BEL Layout 2nd Block 2nd Cross Majathindi Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	10/06/2021	08/07/2021	150.88 X 150.63 X 150.43	22728	**8.216**	403.5	17.8	17.5
2	Vent Concrete	M15	10/06/2021	08/07/2021	150.20 X 151.51 X 150.54	22756	**8.820**	399.3	17.5	
3	Vent Concrete	M15	10/06/2021	08/07/2021	151.66 X 149.12 X 150.50	22615	**8.693**	392.0	17.3	

*The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Suresh. N.K
AE W/O

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-10-27-30** **Date: 17/06/2021**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 12-06-21

Customer ID : Vent Concrete (BEL Layout 2nd Block 2nd Cross)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	10/06/2021	17/06/2021	152.00 X 151.81 X 150.00	23074	**8.346**	284.5	12.3	12.2
2	Vent Concrete	M15	10/06/2021	17/06/2021	150.76 X 149.24 X 151.94	22499	**8.342**	270.2	12.0	
3	Vent Concrete	M15	10/06/2021	17/06/2021	149.99 X 149.08 X 150.62	22361	**8.502**	276.5	12.4	

The results obtained are satisfactory as per standard requirements.

AEE (WRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-10-27-30** **Date: 08/07/2021**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 12-06-21

Customer ID : Vent Concrete (BEL Layout 2nd Block 2nd Cross)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	10/06/2021	08/07/2021	149.91 X 151.27 X 150.33	22676	**8.216**	395.4	17.4	17.4
2	Vent Concrete	M15	10/06/2021	08/07/2021	151.09 X 150.88 X 150.31	22796	**8.820**	397.0	17.4	
3	Vent Concrete	M15	10/06/2021	08/07/2021	149.10 X 151.72 X 149.12	22621	**8.693**	392.2	17.3	

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-10-27-30** **Date: 17/06/2021**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 12-06-21

Customer ID : Vent Concrete (BEL Layout 2nd Block 4th Cross)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	10/06/2021	17/06/2021	149.95 X 150.02 X 149.20	22495	**8.346**	276.2	12.3	12.3
2	Vent Concrete	M15	10/06/2021	17/06/2021	149.29 X 149.10 X 150.28	22259	**8.342**	280.7	12.6	
3	Vent Concrete	M15	10/06/2021	17/06/2021	150.38 X 149.10 X 151.37	22421	**8.502**	272.3	12.1	

* The results obtained are satisfactory as per standard requirements.

AEE (NRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Smitha. N R
AE NRO

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-10-27-30** **Date: 08/07/2021**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 12-06-21

Customer ID : Vent Concrete (BEL Layout 2nd Block 4th Cross)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	10/06/2021	08/07/2021	151.55 X 149.38 X 150.12	22639	**8.216**	388.1	17.1	17.3
2	Vent Concrete	M15	10/06/2021	08/07/2021	150.09 X 149.93 X 151.83	22502	**8.820**	386.6	17.2	
3	Vent Concrete	M15	10/06/2021	08/07/2021	149.99 X 149.86 X 151.44	22478	**8.693**	395.0	17.6	

*The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Sunitha. NR
AE W10

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-10-27-30** **Date: 21/06/2021**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 16-06-21

Customer ID : Vent Concrete (BEL Layout 2nd Block 5th Cross)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	14/06/2021	21/06/2021	150.82 X 149.92 X 151.71	22611	**8.346**	284.4	12.6	12.6
2	Vent Concrete	M15	14/06/2021	21/06/2021	149.51 X 151.98 X 151.36	22723	**8.342**	276.8	12.2	
3	Vent Concrete	M15	14/06/2021	21/06/2021	150.22 X 151.54 X 151.25	22764	**8.502**	294.8	12.9	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

Sunitha. N K
AE N10

FOR CIVIL Pro.

R KARTHIK RECHAN
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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-10-27-30** **Date: 12/07/2021**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 16-06-21

Customer ID : Vent Concrete (BEL Layout 2nd Block 5th Cross)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	14/06/2021	12/07/2021	150.24 X 151.19 X 150.97	22714	**8.216**	404.6	17.8	17.7
2	Vent Concrete	M15	14/06/2021	12/07/2021	149.67 X 150.82 X 150.05	22573	**8.820**	397.9	17.6	
3	Vent Concrete	M15	14/06/2021	12/07/2021	150.39 X 151.34 X 149.41	22760	**8.693**	399.6	17.6	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Suthha NK
AE W10

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-10-27-30** **Date: 21/06/2021**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 16-06-21

Customer ID : Vent Concrete (BEL Layout 2nd Block 4th Main Balance)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	14/06/2021	21/06/2021	150.28 X 150.01 X 151.63	22544	**8.346**	279.2	12.4	12.2
2	Vent Concrete	M15	14/06/2021	21/06/2021	150.59 X 150.36 X 151.49	22642	**8.342**	272.6	12.0	
3	Vent Concrete	M15	14/06/2021	21/06/2021	151.17 X 149.13 X 149.29	22544	**8.502**	277.5	12.3	

*The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

AE WIO

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-10-27-30** **Date: 12/07/2021**

Project Name : Package - 1 Includes 5 Works . 1) Construction of RCC Drain and Covering Slab at BEL 2nd Block 1st, 2nd, 4th, 5th Cross in Ward No. 10, (Doddabommasandra). 2) Construction of Roads and Drains at BEL 2nd Block 1st, 2nd, 3rd and 4th Main Road in Ward No. 10, (Doddabommasandra). 3) Improvements to Roads and Drains at Chamundeshwari Layout Cross Road in Ward No. 10, (Doddabommasandra). 4) Improvements to Roads and Drains at Nanjappa Layout Cross Road in Ward No. 10, (Doddabommasandra). 5) Improvements to Roads and Drains at Nanjappa Layout Main Road in Ward No. 10, (Doddabommasandra).

Agency : Sri.Chidananda Murthy R, No:16, 2nd Cross, Vinayaka Layout, Horamavu, Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/155/2020-21

Date of Receipt : 16-06-21

Customer ID : Vent Concrete (BEL Layout 2nd Block 4th Main Balance)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	14/06/2021	12/07/2021	149.51 X 150.26 X 151.78	22466	8.216	383.5	17.1	17.5
2	Vent Concrete	M15	14/06/2021	12/07/2021	151.87 X 151.59 X 149.40	23022	8.820	401.1	17.4	
3	Vent Concrete	M15	14/06/2021	12/07/2021	149.75 X 149.47 X 150.44	22384	8.693	402.0	18.0	

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL PRO Sig Da BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Suvitha. NR
AE W 10

****End of Report****